	Application No.	Applicant(s)	
Notice of Allowability	10/736,741	ZIPPER, ELIAV	
	Examiner	Art Unit	
	Blane J. Jackson	2618	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to the RCE with IDS file 2. The allowed claim(s) is/are 4-8 and 11-27.	S (OR REMAINS) CLOSED in to or other appropriate commun RIGHTS. This application is sure and MPEP 1308.	his application. If not included ication will be mailed in due co	l ourse. THIS
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:		(f) .	
1. Certified copies of the priority documents hav		N.	
2. Certified copies of the priority documents hav			f 4h -
3. Copies of the certified copies of the priority do	ocuments have been received	in this national stage application	in from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sur Paper No./M 7. ☐ Examiner's A	rmal Patent Application nmary (PTO-413), ail Date mendment/Comment tatement of Reasons for Allow	ance

Application/Control Number: 10/736,741

Art Unit: 2618

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 06 September 2007 has been entered.

Information Disclosure Statement

The Information Disclosure Statement filed 06 September 2007 has been reviewed and made of record. With respect to the most similar cited prior art, Barak et al. teaches a power amplifier comprising an outphasing system operative to control the variable phase and the amplitude of the input signal in order to achieve high efficiency at low desired output powers. However the claim language of the independent claims of the current application teach an RF power amplifier comprising an *outphasing modulator* with further identification of the functional elements of the outphasing modulator.

Application/Control Number: 10/736,741

Art Unit: 2618

Allowable Subject Matter

Claims 4-8 and 11-27 are allowed. The following is a statement of reasons for the indication of allowable subject matter: The prior art made of record teaches various methods of a RF powr amplifier that includes an outphasing system to achieve high efficiency but does not teach an RF power amplifier comprising an outphasing modulator with respect to the claimed elements.

As to claim 4, the prior art made of record does not teach an outphasing modulator comprising multiplying a first and second phase shifted signal by a respective first and second amplitude modulation signal with a first and second scaling factor and generating outphased modulated signals from the first and second phase shifted modulated signals.

As to claim 8, the prior art made of record does not teach setting a scaling factor once per command to set an average output power of output signals of a power amplifier, said output signals generated by amplifying outphased modulated signals by said power amplifier and said outphased modulated signals generated from said phase shifted modulated signals.

As to claims 17, 21 and 24, the prior art made of record does not teach an outphasing modulator comprising a multiplier to multiply an amplitude modulation signal by a phase modulated carrier signal to generate a modulated signal and a phase splitter coupled to the multiplier to generate phase shifted modulated signals.

Application/Control Number: 10/736,741

Art Unit: 2618

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure includes: Kolanek (US 6,633,200) and Gu (US 6,737,914).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blane J. Jackson whose telephone number is (571) 272-7890. The examiner can normally be reached on Monday through Friday, 8:30 AM-6:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elen J. John